

MULTIPLE SPEED TRANSFER CASE

Abstract of Disclosure

A four wheel drive vehicle having an automatic transmission and a transfer case. The transfer case includes a planetary gear set and a pair of multi-plate, hydraulically controlled clutches coupled to the gear set for shifting between a high gear ratio and a low gear ratio. The transfer case also includes a four wheel drive, multi-plate, hydraulically controlled clutch coupled to the output of the gear set for switching between a two wheel drive mode and a four wheel drive mode. The hydraulic valving and controls for the hydraulic clutches in the transfer case can be contained in the automatic transmission, with fluid passages to communicate the fluid to the clutches. The planetary gear set in the transfer case can be employed with the planetary gear sets in the transmission to expand the range of output gear ratios from the transfer case.

Figures